

## Agglomeration von Siliciumpulvern

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According to a method for agglomerating silicon powders, the silicon powder is heated to a temperature of at least 250 DEG C, preferably 1200 to 1500 DEG C, using the effect of microwave radiation in the wavelength range 0.5 kHz to 300 GHz. Fine silicon dust with a particle size of less than 100  $\mu$ m is preferably used as the starting material. Metal-containing and/or boron, phosphorus, arsenic or antimony-containing doping agents can be added to the silicon powder before or after the microwave treatment. The resulting granulate is optionally broken, milled and sifted. The invention also relates to a silicon granulate which can be produced by this method. Said granulate preferably has a porosity of 0 to 80 % and foreign phases or precipitates on the grain boundary of the monocrystals. The inventive silicon granulate can be used for producing silicon monocrystals or multicrystalline silicon blocks or for reacting with hydrogen chloride or halogenated hydrocarbons in fluidised beds or shaft furnaces.

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